

Message Text

UNCLASSIFIED

PAGE 01 NEW DE 11685 01 OF 02 011259Z
ACTION NEA-10

INFO OCT-01 ISO-00 SOE-02 AID-05 CEA-01 CIAE-00
COME-00 DODE-00 EB-08 DOE-15 H-02 INR-10 INT-05
L-03 NSAE-00 OMB-01 PM-05 OES-09 SP-02 SS-15
STR-07 TRSE-00 ACDA-12 PA-02 NASA-02 NSCE-00
SSO-00 ICAE-00 INRE-00 NEAE-00 /117 W
-----032013 011314Z /45

O 011145Z AUG 78
FM AMEMBASSY NEW DELHI
TO SCSTATE WASHDC IMMEDIATE 3125

UNCLAS SECTION 1 OF 2 NEW DELHI 11685

PASS OES, DOE (FOR NORMAN BROWN) AID, NASA
(FOR BILL PETIT TO PASS TO SCHURMEIER, JPL)

E.O. 11652: N/A
TAGS: TGEN ENRG IN
SUBJECT: STATUS OF COLLABORATIVE SOLAR ENERGY PROPOSALS
WITH DOE

REF: NEW DELHI 11193

1. THE PURPOSE OF THIS CABLE IS TO DELINEATE STATUS OF
COLLABORATIVE SOLAR ENERGY PROPOSALS, TO INDICATE SUPPORT
OF GOI AGENCIES AND EMBASSY FOR RAPID FINALIZATION OF
PROPOSALS AND TO ASK DOE FOR FOLLOW-UP.

2. DURING THE VISIT OF PRIME MINISTER DESAI TO THE U.S.,
THERE WERE DISCUSSIONS BETWEEN USG AND GOI OFFICIALS THAT
NOTED THAT NO INDO-US COLLABORATIVE PROJECTS ON SOLAR
ENERGY WERE BEING SUPPORTED BY USG AGENCIES AND IN FACT
NONE HAD EVEN BEEN FINALIZED. THE GOI NOTED THE SUPPORT FOR
COLLABORATIVE SOLAR ENERGY PROJECTS EXPRESSED BY HIGH USG
OFFICIALS BUT THAT DOE DOES NOT AT PRESENT, HAVE DOLLARS FOR
THESE PROJECTS. AS WE HAVE POINTED OUT TO DST HERE,
UNCLASSIFIED

UNCLASSIFIED

PAGE 02 NEW DE 11685 01 OF 02 011259Z

THE AID PROGRAM IS TO PROVIDE THE DOLLAR SUPPORT THROUGH A
GRANT TO THE GOI FOR THOSE PROJECTS WHICH ARE WITHIN THE
PRIORITIES ESTABLISHED BY THE INDO-US JOINT COMMISSION AND
ITS SUBCOMMISSIONS AND MEET THE AID GRANT CRITERIA.

3. OF THE 17 PROJECTS PROPOSED AT THE SOLAR ENERGY
WORKSHOP IN 1976, FOUR ARE UNDER DEVELOPMENT. THESE ARE

THE FOLLOWING:

A. 12 KVA DISTRIBUTED SYSTEM SOLAR POWER PLANT;

B. MEDIUM TEMPERATURE, HIGH EFFICIENCY TRACKING AND NON-TRACKING SOLAR ENERGY COLLECTORS;

C. SOLAR DRYING OF AGRICULTURAL PRODUCE; AND

D. THIN FILM HETEROJUNCTION SOLAR CELLS.

4. DST FEELS THE BALL IS IN OUR COURT REGARDING THE FINALIZATION OF THE FOUR SOLAR ENERGY PROPOSALS UNDER PREPARATION. EMBASSY NEEDS DOE FOLLOWUP ON THESE PROPOSALS. WE WOULD LIKE FINAL VERSIONS SENT TO US FOR GOI SCREENING AND CLEARANCE WHICH WE BELIEVE WILL BE RAPID. AID/DELHI HAS PREPARED THE DRAFT GRANT AGREEMENT WHICH HAS RECEIVED DST CONCURRENCE. SUBJECT TO GOI AND USG APPROVAL, IMPLEMENTATION OF PROJECTS COULD BEGIN AS SOON AS AID GRANT DOLLARS ARE AVAILABLE.

5. WHEN SCICOUNS LEFT USA, THE JPL-BHEL - 12 KVA PROJECT WAS IN THE FINAL RE-WRITE STAGE AT JPL. THIS IS THE KINGPIN OF THESE PROJECTS ACCORDING TO DR. GURURAJA, DIRECTOR FOR ENERGY, DST. DR. ARCOT RAMACHANDRAN, SECRETARY, DST, HEAD OF BOTH THE DST TECHNICAL SCREENING COMMITTEE AND THE GOI AID DOLLAR SCREENING COMMITTEE, WANTS THIS UNCLASSIFIED

UNCLASSIFIED

PAGE 03 NEW DE 11685 01 OF 02 011259Z

COLLABORATION VERY MUCH AND FEELS IT IS VITAL TO THE SUCCESS OF THE PROJECT. BHEL IS EXPANDING THE SOLAR DIVISION OF THIRTY TECHNICAL PEOPLE AND IS SETTING UP A 20 MILLION DOLLAR R&D ESTABLISHMENT AT HYDERABAD FOR THIS AND OTHER PROJECTS. GURURAJA OBLIGATED 100,000 DOLLARS FOR THIS PROJECT PRIOR TO THE END OF THE GOI FISCAL YEAR ON MARCH 31. HE IS HELPING BHEL GET THE LICENSE TO BUY A 7.5 KVA SOLAR CONCENTRATOR DEMONSTRATION UNIT FROM THE US AS PART OF THIS PROJECT. DR. R.K. SURI, BHEL, HEAD R&D FOR NON-CONVENTIONAL ENERGY SYSTEMS, HAS FOUR PEOPLE DOING PRELIMINARY DESIGN WORK ON THE SOLAR CONCENTRATOR SYSTEM. HE WANTS TO SEND A TEAM TO JPL FOR THE BRIEFINGS NOTED IN DRAFT JPL-BHEL PROPOSAL.

UNCLASSIFIED

NNN

UNCLASSIFIED

PAGE 01 NEW DE 11685 02 OF 02 011303Z
ACTION NEA-10

INFO OCT-01 ISO-00 SOE-02 AID-05 CEA-01 CIAE-00
COME-00 DODE-00 EB-08 DOE-15 H-02 INR-10 INT-05
L-03 NSAE-00 OMB-01 PM-05 OES-09 SP-02 SS-15
STR-07 TRSE-00 ACDA-12 PA-02 NASA-02 NSCE-00
SSO-00 ICAE-00 INRE-00 NEAE-00 /117 W
-----032042 011315Z /45

O 011145Z AUG 78
FM AMEMBASSY NEW DELHI
TO SECSTATE WASHDC IMMEDIATE 3126

UNCLAS SECTION 2 OF 2 NEW DELHI 11685

PASS OES, DOE (FOR NORMAN BROWN) AID, NASA
(FOR BILL PETIT TO PASS TO SCHURMEIER, JPL)

6. NORMAN BROWN, DOE AND H. SCHURMEIER HAVE BOTH
SEEN THE AID PROJECT PAPER DRAFT ON THIS GRANT. THE
PROJECT PAPER IS AN INTERNAL AID DOCUMENT AND THE
STATEMENTS MADE BY AID CONSULTANTS IN THE
APPENDIX TO THE PAPER DO NOT NECESSARILY REFLECT
AID VIEWS. EACH PROJECT (CALLED SUBPROJECT IN THE
PROJECT PAPER) WILL BE CONSIDERED IN LIGHT OF THE
CRITERIA AGREED TO BETWEEN THE GOI AND AID WHICH
HAS BEEN DELINEATED IN THE PROJECT PAPER.

7. THE PROJECT ON THIN FILM HETEROJUNCTION SOLAR
CELLS HAS MADE A REAL BREAKTHROUGH IN DEVELOPING
CADMIUM SULPHIDE SOLAR CELLS BY A SIMPLE SPRAY AND
COATING TECHNIQUE. THE PROCESS RESULTS IN A
RELATIVELY CHEAP THIN FILM CELL. JOHN MEAKIN AT
THE UNIVERSITY OF DELAWARE HAS THE KNOW-HOW TO
HELP SOLVE THE SOLAR DEGREDDATION PROBLEM ENCOUNTERED.
ALTHOUGH THIS IS A RESEARCH ORIENTED PROJECT, DST
BELIEVES THAT THE COST BENEFITS FOR RURAL APPLICATIONS
ARE SUCH THAT THE CRITICISM NOTED IN THE PROJECT
UNCLASSIFIED

UNCLASSIFIED

PAGE 02 NEW DE 11685 02 OF 02 011303Z

REPORT IS NOT NECESSARILY VALID. AID DOLLAR SUPPORT IS
POSSIBLE AND THE PROJECT SHOULD BE FINALIZED.

8. GURURAJA IS GOING TO FUND SOCIO-ECONOMIC STUDIES
IN SEVERAL VILLAGES TO DETERMINE THE EFFECT OF PROVIDING
ELECTRICAL ENERGY TO VILLAGES. HE CONCURS
WITH THE SCHURMEIER SUGGESTION THAT A SOLAR CELL
SYSTEM BE MADE AVAILABLE QUICKLY AS PART OF

THIS STUDY. HE WOULD LIKE TO SEE A JPL-CENTRAL ELECTRONICS LABORATORY (CEL) COLLABORATION ON THIS PROJECT. CEL HAD EXPRESSED INTEREST IN THIS AND THIS IS NOTED IN THE PROJECT PAPER.

9. COMMENT: THE MISSION WANTS TO GET THESE SOLAR ENERGY PROJECTS UNDER ACTIVE CONSIDERATION FOR GOI/AID APPROVAL AS SOON AS AID FUNDING IS AVAILABLE. THE GOI WANTS AND NEEDS US COLLABORATION AND IS PREPARED TO FUND THEM. IN FACT THE DST IS CONCERNED THAT THEY HAVE COMMITTED FUNDS IN THE PRESENT BUDGET ON THE CONDITION THAT THERE WILL BE US COLLABORATION. AS ALREADY NOTED THE DST HAS ARRANGED TO PROVIDE THE DOLLARS NECESSARY TO PROCURE THE 7 1/2 KILOWATT DEMONSTRATION PLANT. THE DST AND INDIAN INVESTIGATORS ARE EAGER TO START COLLABORATING.

10. DOE FOLLOW-UP ON THESE SOLAR ENERGY PROJECTS IS NEEDED. WE WOULD LIKE TO KNOW STATUS OF EACH OF THE FOUR PROJECTS. SEND FINAL DRAFT REVISIONS AS THEY BECOME AVAILABLE. PERTINENT USG AGENCIES SHOULD REVIEW THEM SO THAT THEY WILL BE READY FOR FINAL GOI/AID REVIEW AND CLEARANCE.

AS NOTED GOI IS READY TO MOVE QUICKLY. EMBASSY
UNCLASSIFIED

UNCLASSIFIED

PAGE 03 NEW DE 11685 02 OF 02 011303Z

WOULD CERTAINLY LIKE TO SEE SOLAR ENERGY PROJECTS UNDERWAY PRIOR TO THE S AND T SUBCOMMISSION MEETING THIS FALL.
GOHEEN

UNCLASSIFIED

NNN

Message Attributes

Automatic Decaptioning: X
Capture Date: 01 jan 1994
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: REPORTS, SOLAR POWER
Control Number: n/a
Copy: SINGLE
Draft Date: 01 aug 1978
Decaption Date: 01 jan 1960
Decaption Note:
Disposition Action: n/a
Disposition Approved on Date:
Disposition Case Number: n/a
Disposition Comment:
Disposition Date: 01 jan 1960
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1978NEWDE11685
Document Source: CORE
Document Unique ID: 00
Drafter: n/a
Enclosure: n/a
Executive Order: N/A
Errors: N/A
Expiration:
Film Number: D780314-0747
Format: TEL
From: NEW DELHI
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1978/newtext/t197808112/aaaadqgp.tel
Line Count: 205
Litigation Code IDs:
Litigation Codes:
Litigation History:
Locator: TEXT ON-LINE, ON MICROFILM
Message ID: 26276b59-c288-dd11-92da-001cc4696bcc
Office: ACTION NEA
Original Classification: UNCLASSIFIED
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 4
Previous Channel Indicators: n/a
Previous Classification: n/a
Previous Handling Restrictions: n/a
Reference: 78 NEW DELHI 11193
Retention: 0
Review Action: RELEASED, APPROVED
Review Content Flags:
Review Date: 29 mar 2005
Review Event:
Review Exemptions: n/a
Review Media Identifier:
Review Release Date: N/A
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
SAS ID: 1578344
Secure: OPEN
Status: NATIVE
Subject: STATUS OF COLLABORATIVE SOLAR ENERGY PROPOSALS WITH DOE
TAGS: TGEN, ENRG, IN, DOE
To: STATE
Type: TE
vdkgvwkey: odbc://SAS/SAS.dbo.SAS_Docs/26276b59-c288-dd11-92da-001cc4696bcc
Review Markings:
Sheryl P. Walter
Declassified/Released
US Department of State
EO Systematic Review
20 Mar 2014
Markings: Sheryl P. Walter Declassified/Released US Department of State EO Systematic Review 20 Mar 2014